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**CONFIDENTIAL**

**DATE:** December 19, 2002

**TO:** Examiner Liping Chen

**FAX NO.:** (703) 872-9306

**FROM:** Arles A. Taylor, Jr.

**RE:** Serial No. 09/998,058; Attorney Docket No. 421/34/2

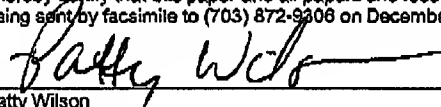
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**COMMENTS: PLEASE DELIVER TO EXAMINER LIPING CHEN  
AS SOON AS POSSIBLE. THANK YOU.**

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I hereby certify that this paper and all papers and fees referred to herein are being sent by facsimile to (703) 872-9306 on December 19, 2002.

  
Patty Wilson

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Threadgill et al.

Group Art Unit: 1645

Serial No.: 09/998,058

Examiner: Chen, Liping

Filed: November 30, 2001

Docket No.: 421/34/2

Confirmation No.: 6701

For: METHOD FOR ULTRA-HIGH RESOLUTION MAPPING OF GENES  
AND DETERMINATION OF GENETIC NETWORKS AMONG GENES  
UNDERLYING PHENOTYPIC TRAITS

\*\*\*\*\*

RESPONSE TO RESTRICTION/ELECTION REQUIREMENT

Via Facsimile to Fax No. (703) 872-9306  
Commissioner for Patents  
Washington, DC 20231  
Attn: Examiner Liping Chen

Sir:

This is responsive to the Restriction/Election Requirement dated November 19, 2002, having a 1-month term for Response that will expire on December 19, 2002. Favorable consideration is respectfully requested in view of the following Election and Remarks.

Application No. 09/998,058

RESTRICTION PRESENTED

The claims have been restricted into the following groups of inventions:

<u>Groups</u>	<u>Claims</u>	<u>Subject Matter</u>
I	1-27 and 46-53	A method for identifying a genetic locus that modulates a phenotype from a renewable population, wherein the renewable population is an animal, or a method for identifying an interaction between a genetic locus and a non-genetic factor, by mapping the genomes of individuals within the population.
II	1-4, 8-9, 11-13, 15-27 and 46-53	A method for identifying a genetic locus that modulates a phenotype from a renewable population, or a method for identifying an interaction between a genetic locus and a non-genetic factor, by mapping the genomes of individuals with the population, wherein the renewable population is <u>a plant</u> .
III	28-45	A method for producing a renewable population of genetically diverse individuals, wherein the renewable population is <u>an animal</u> , a renewable population produced.
IV	28-30, 34-35, 37-39 and 41-45	A method for producing a renewable population of genetically diverse individuals, wherein the renewable population is <u>a plant</u> , and a renewable population produced.
V	54 and 55	A method for identifying an epistatic interaction between genetic loci that modulate a phenotype or a method of identifying an epistatic interaction between gene networks.
VI	56-59	A method for producing recombinant inbred lines of <u>animal</u> .
VII	56-59	A method for producing recombinant inbred lines of <u>plant</u> .

Application No. 09/998,058

#### APPLICANTS' ELECTION

Applicants hereby elect the invention of Group I, claims 1-27 and 46-53, drawn to a method for identifying a genetic locus that modulates a phenotype from a renewable population, wherein the renewable population is an animal, or a method for identifying an interaction between a genetic locus and a non-genetic factor, by mapping the genomes of individuals within the population for prosecution at this time.

#### REMARKS

Claims 1-59 are now pending in the subject U.S. patent application. Claims 1-59 as filed have been subjected to a Restriction/Election Requirement.

In response to the Restriction/Election Requirement, applicants have elected the claims of Group I, claims 1-27 and 46-53, for prosecution at this time.

Applicants hereby reserve the right to file one or more divisional patent applications directed to the unelected subject matter.

#### CONCLUSIONS

Should there be any minor issues outstanding in this matter, Examiner Chen is respectfully requested to telephone the undersigned attorney. Early passage of the subject application to issue is earnestly solicited.

Application No. 09/998,058

Deposit Account

The Commissioner is hereby authorized to charge any deficiency or credit any overpayment associated with the filing of this correspondence to Deposit Account Number 50-0426.

Respectfully submitted,

JENKINS &amp; WILSON, P.A.

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